SPRINT-3

Date	19 NOVEMBER 2022
Team ID	PNT2022TMID37262
Project Name	SMART SOLUTIONS FOR RAILWAYS

PROCEDURE:

Step1: Develop a python script to scan the QR code

Step2: Connect the python code to IBM Cloudant using the credentials

Step3: Run the program

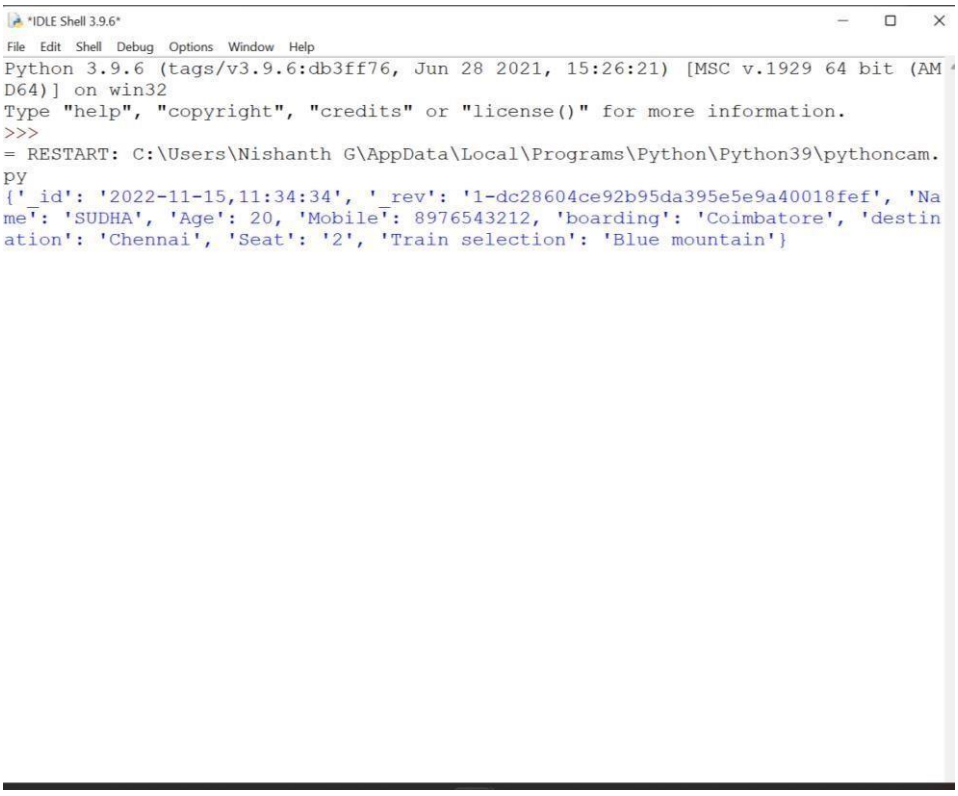
PYTHON SCRIPT TO SCAN QR CODE:

```
import cv2 import numpy as np import time import pyzbar.pyzbar

as pyzbar from pyzbar.pyzbar import decode from

ibmcloudant.cloudant_v1 import CloudantV1 from ibmcloudant

import CouchDbSessionAuthenticator from

ibm_cloud_sdk_core.authenticators import BasicAuthenticator


authenticator = BasicAuthenticator('apikey-v2-125rwcp4ifi6zz2ly1cq0kakyjn98du2ysgc72h53lzi',
'af693938842290ec2c254461754447b5') service =

CloudantV1(authenticator=authenticator)


service.set_service_url('https://apikey-v2-
125rwcp4ifi6zz2ly1cq0kakyjn98du2ysgc72h53lzi:af693938842290ec2c254461754447b5@82d8749943954f
46-a190-6a186bee5051-bluemix.cloudantnosqldb.appdomain.cloud')


cap= cv2.VideoCapture(0) font =

cv2.FONT_HERSHEY_PLAIN while

True:
```

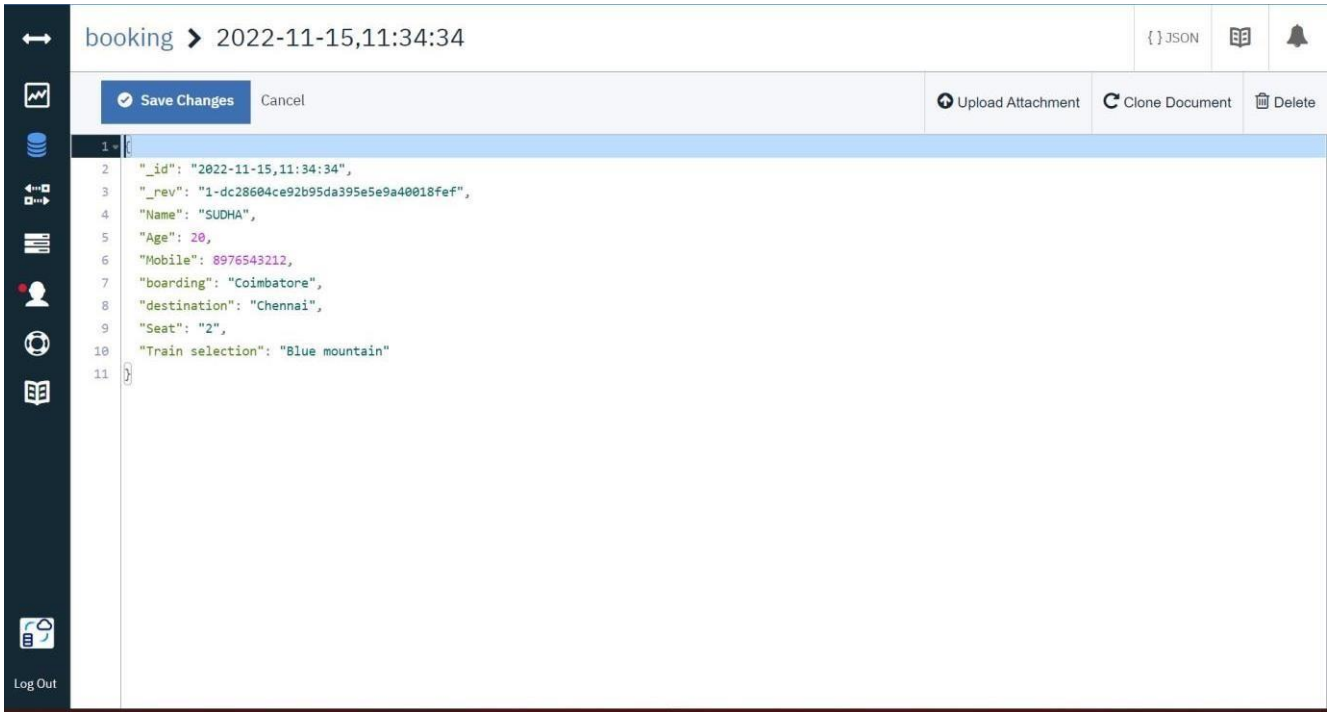
```
  _, frame = cap.read()    decodedObjects = pyzbar.decode(frame)    for
obj in decodedObjects:       #print ("Data", obj.data)
a=obj.data.decode('UTF-8')       cv2.putText(frame, "Ticket", (50,

50), font, 2,  (255, 0, 0), 3)
    #print (a)
     try:
        response = service.get_document(db='booking',doc_id = a).get_result()          print(response)
time.sleep(5)       except Exception as e:
        print("NOT A VALID TICKER")
time.sleep(5)

  cv2.imshow("Frame",frame)    if cv2.waitKey(1)
& 0xFF ==ord('q'):
     break

cap.release() cv2.destroyAllWindows()
client.disconnect()
```

PYTHON CODE OUTPUT:

QR CODE DETAILS:



DATA STORED IN CLOUDANT:


booking > 2022-11-15,11:34:34
{ } JSON
Save Changes
Cancel
Upload Attachment
Clone Document
Delete
{
"_id": "2022-11-15,11:34:34",
"_rev": "1-dc28604ce92b95da395e5e9a40018fef",
"Name": "SUDHA",
"Age": 20,
"Mobile": 8976543212,
"boarding": "Coimbatore",
"destination": "Chennai",
"Seat": "2",
"Train selection": "Blue mountain"
}
Log Out